Effect of Some Conditions of Catalytic Cracking in a Bubbling Layer of Synthetic Alumosilicate on the Formation of Aromatic Hydrocarbons in the Composition of Gasoline of paraffins from 49.2 - 43.9 to 35.2 - 30.4%. Gasolines obtained in the first stage at 480°C after passing through the second stage have a content of olefines of 3.8 - 3.9%, aromatic hydrocarbons 35 - 42.5%, naphthenes 26.0 - 23.2%, paraffins 35.2 into narrow fractions, by the determination of their physical-chemical constants and by with a change in the cracking temperature.

Card 2/2

**3 15 (2 1**5) (4)

# ZULFUGARLY, D. and ZIZIN, V.

"Spectral Method of Determining Sodium in Aluminum Silicate Catalysts," Novosti neft, tekhniki, No 2, 1953, pp 9-11

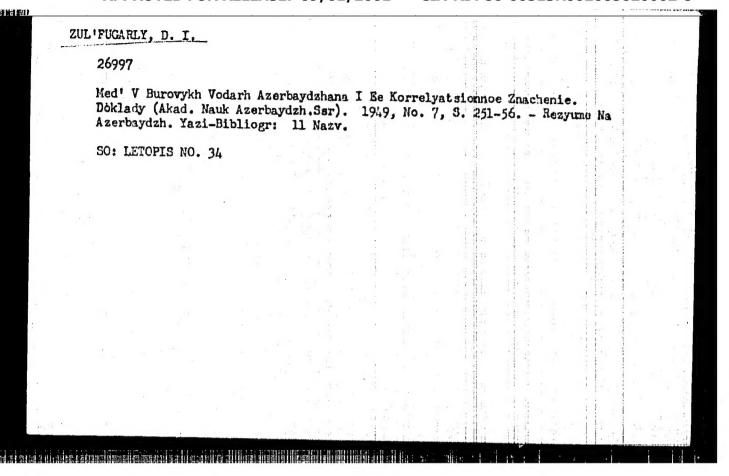
A simple method for detecting 0.1 - 1.0% Na in aluminum silicate catalysts is based on measurement of absolute intensities of lines 3302 and 3303 A of the Na doublet. The amount of Na is found from a graduated curve expressing the relation of optical density of blackening of the photoplate to the logarithm of Na concentration.

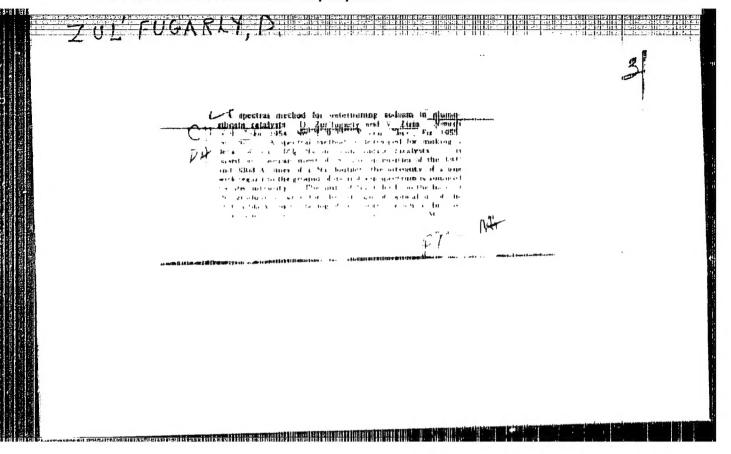
R<sup>2</sup>hFiz, No 3, 1955

ZUL'FUGARLY, D. I.; ISMAILOV, I.M.

Analysis of coke elements in a depleted alumosilicate catalyser.
Dokl. AM Azerb. SSR 11 no.2:97-102 '55. (MKRA 8:10)

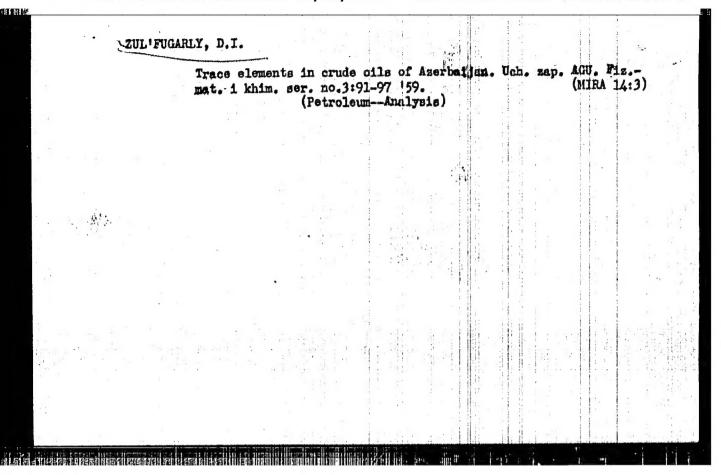
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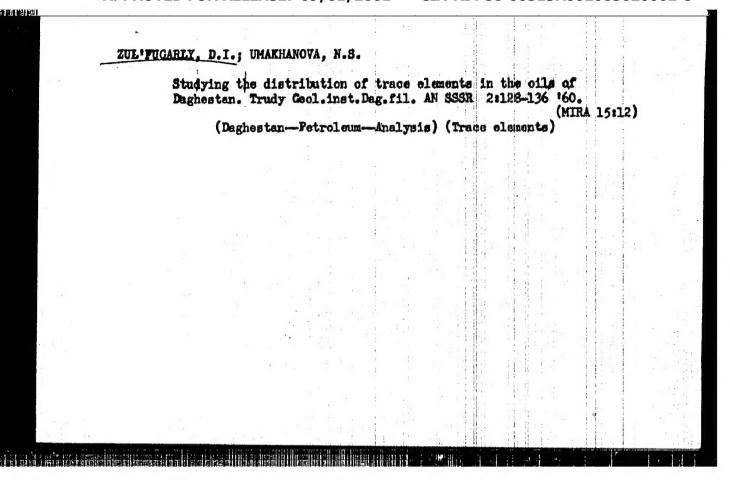


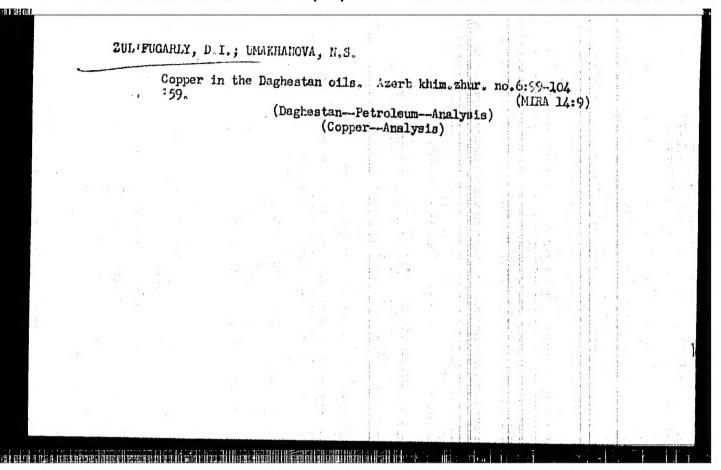


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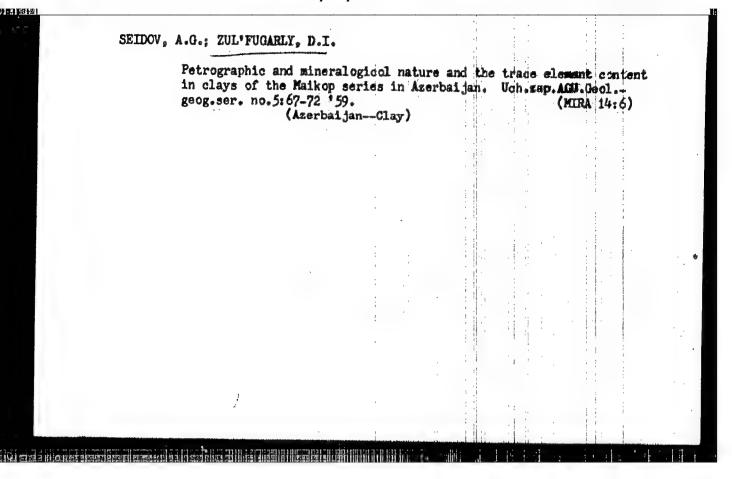
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			ACT INSTITUTE NOTES	• •	Ministeratvo neftyanay	· 288 484	ded for chemical and with advanced	COVERAGE: The collection presents an analysis of different types of crudes extracted in Aschantish and of the product recovered from these crudes through particles conversion to described and the suitability of these crucian force and described and the suitability of these trucks for the crucian performed over a fluidised bed synthetic of existy and the chainful performed over a fluidised bed synthetic catalysts and the chainful oversions are suitable formed over a fluidised bed synthetic catalysts for still a sanity of some structure of the chainful of catalysts oversions. The sanity of catalysts of the chainful o	herining.  Anywes, S.A., V.V. Terrebals, S.G. Teshios, A.Y. Manager, Greensed, A.Y. Manager, Greensed, A.S. Manager, M. Manager, Greense Greense, Greense, Manager, Manager, Greense, Greense, Greense, Greense, Manager, Manager, Greense, Greense, Greense, Greense, Manager, Manager	Janeirot, A.D., T.S. Gilvyre, and D.J. Intragary. Bifort of Errichin Vinition of Gillyic Craning Prince Over a Fluidiad Synthesis Silica Alumina Craiss on the Especied of Arcentin	2277. Chemical Co	and the second of the second o	
			11(4)  FRACE I BOOK EXPLOIMATION Baku. Azerbaydekanakiy nachno-isaledowici'ady Pererbayyayukehey procyahlemosti tang	(Collection of Works, No. 2) 373 P. Errate silp inserted.	y: Azerbaydzhan.	ille, Alltean; Editt fonces, V.S. Outyry Decor of Chemical tences, V.Ya. Hand Malleymenty, Candid Cundidate of Chemical ral Sciences, J.W.	FOURTH THE CALLECTION OF MITIGLES IN THE MODEL OF CHEMICAL MATTER CONCERNMENT ACTIVATION OF CHICAGO OF PARTIES CONCERNED WITH ACTIVATION.	WERAGE: The collection presents an analysis of different recovered from these crudes through performed of the product processes. The described shalling and of the product processes. The described shalling and desmisifying of or recovery of distent the shikhility of these trudes for the recovery of distent the shikhility of these trudes for the standing performed over a findished bed synthetic catalytic shalling the shalling produced by them the change of catalytic entalytic entalytics for entalytic entalytics. His production of different types of oils and of enthough the cultined. Reference Acceptany individual articles.	A d. Yeavier	y and D.Y. Entring Fric Granting Perf Halyst on the Pape	Care 3.0  Habloov A.B., V.S., Ottoris, and D.T. Full Marie. Chemies Hitlory of Gasalian Produced by Two-11280 Calling The Management		
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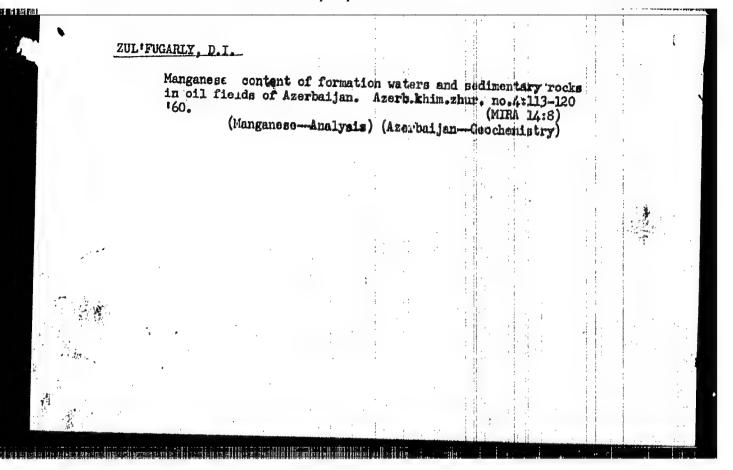


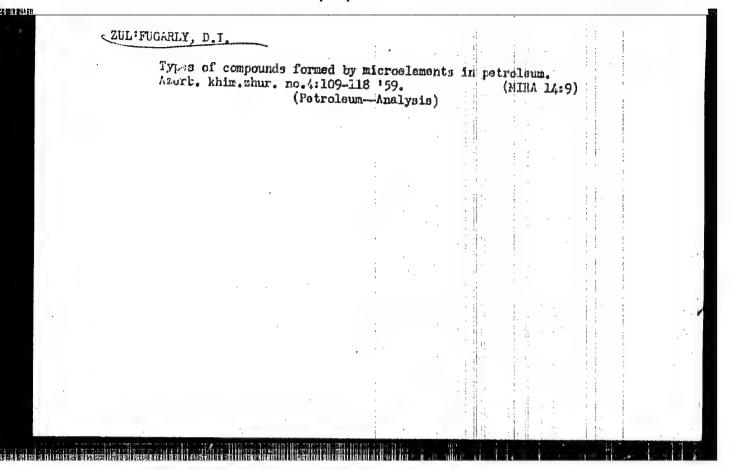


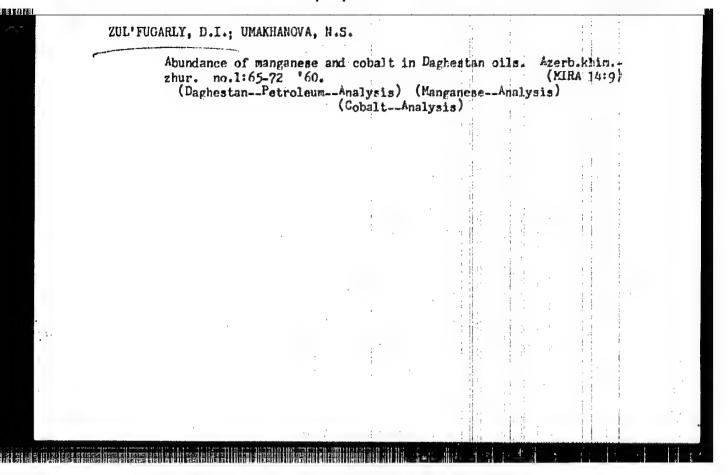


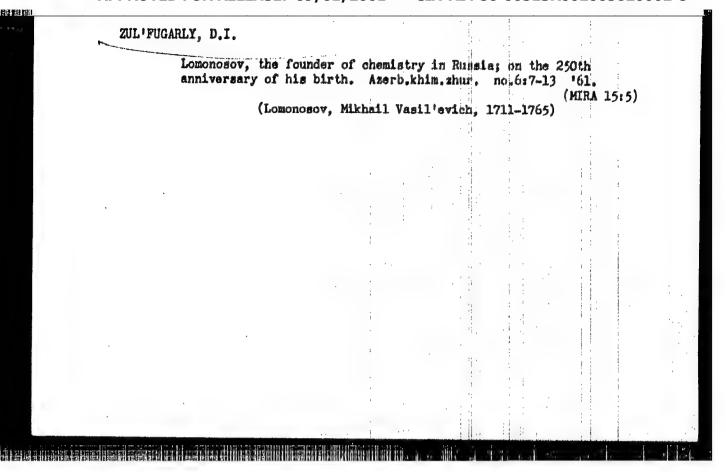
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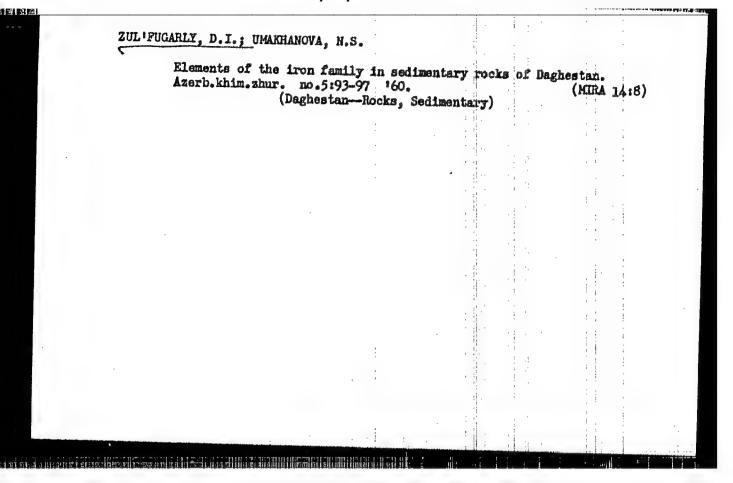




ZUL'FUGARLY, D.I.; ASHUMOV, G.G.; MUSAYEV, M.R.; MASIROV, A.B.

Macroelements in petroleum ashes of Azerbaijan [in Azerbaijan]
with summary in Russian]. Azerb,khim.zhur. no.2:149-152 '60.
(MIRA 14:8)

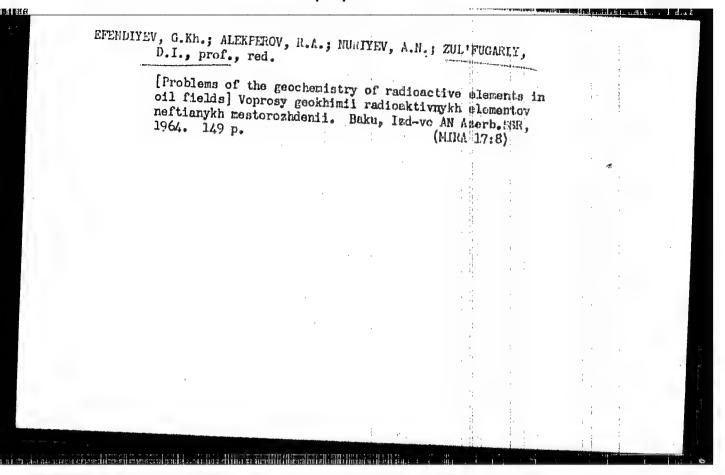
(Azerbaijan--Petroleum--Analysis)

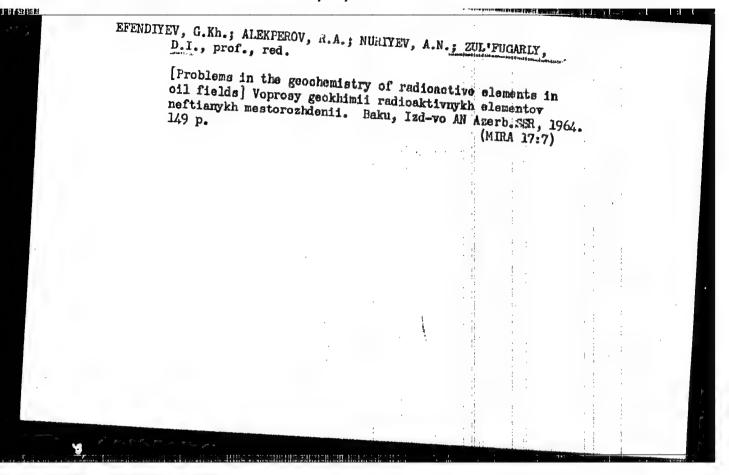


Chromium content of Azerbaijan crude oil no.6:127-132 '60. (Azerbaijan—Petroleum—Analysis)	s. Azerb.khim.zhur. (MIRA 14:8) (Chromium—Analysia)
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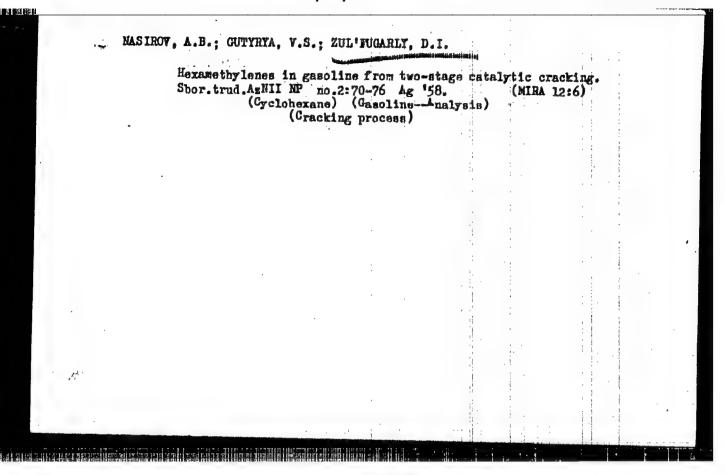
MAMEDALIYEV, Yusuf Geydarovich, Laureat Gosudarstvennoy premii,
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(1905-1961); NAGIYEV, M.F., skademik, red.; KULIYEV,
A.M., akademik, red.; ZUL'FUGARLY, D.I., prof., red.

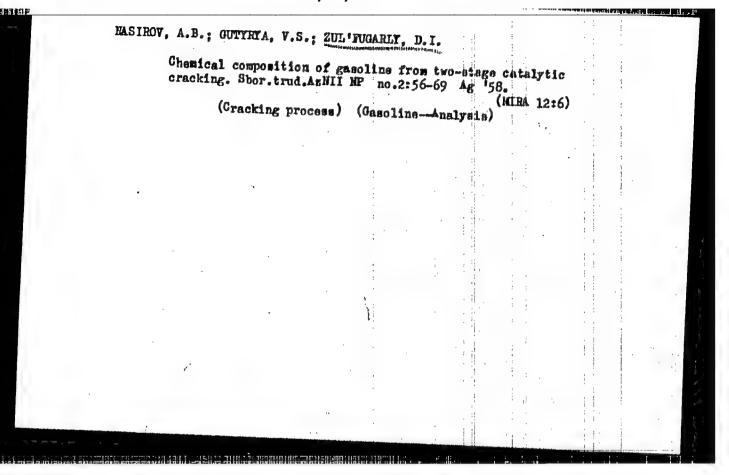
[Selected works in three volumes] Izbrannye proizvedeniia v trekh tomakh. Baku, Izd-vo AN Azerb.SSR. Vol.1.
1964. 578 p. (MIRA 17:10)

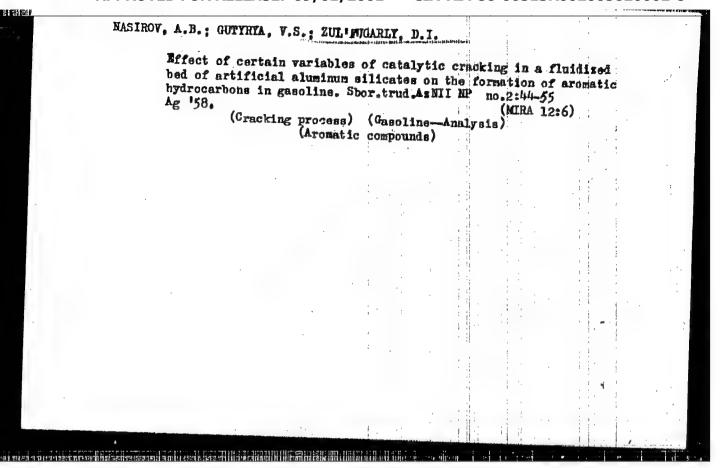


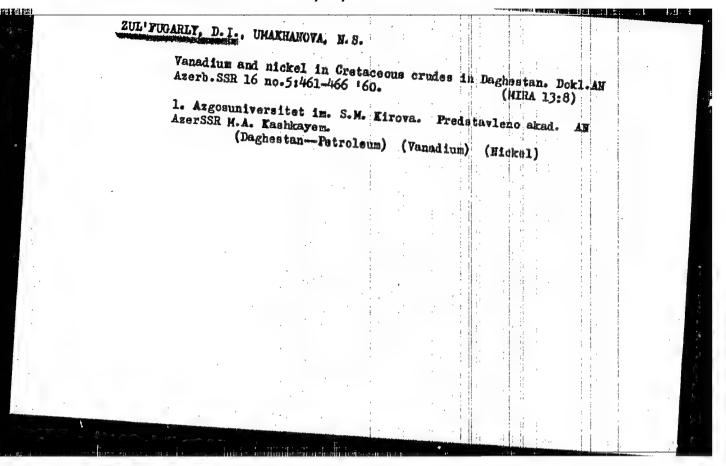


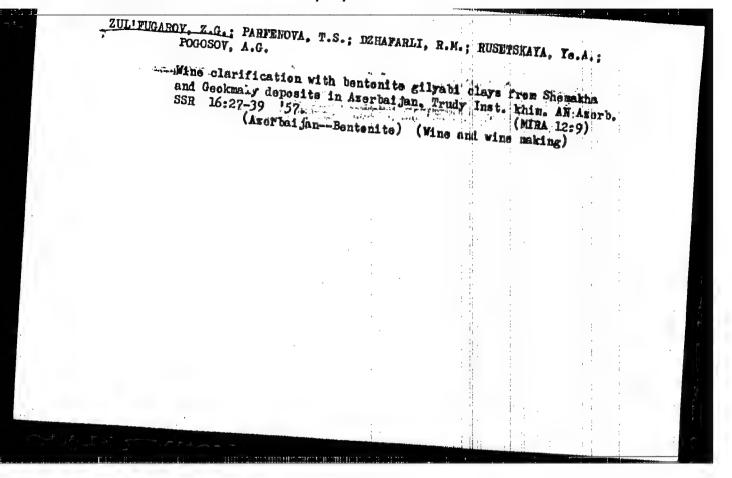
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Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 8, p 503 (USSR)

AUTHORS: Nasirov, A.B., Gutyrya, V.S., Zul'fugarly, D.I.

TITLE: Hexamethylenes of Gasoline of Two-Stage Catalytic Cracking

PERIODICAL: Sb. tr. Azerb. n.-1. in-t neftepererabat. prom-sti, 1958, Nr 2, pp 70 - 76

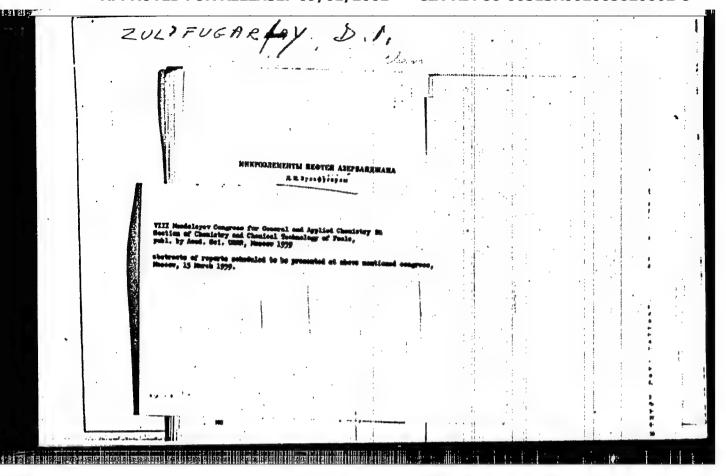
(Azerb. summary)

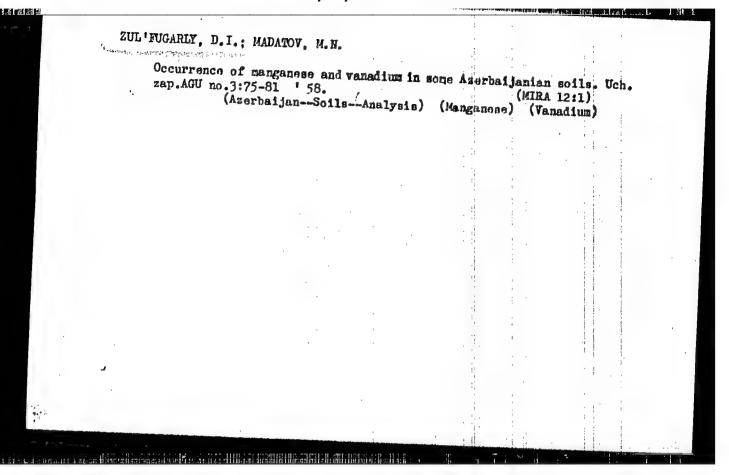
ABSTRACT: The characteristic is cited of naphthene-paraffin residues remaining after chromatographic extraction of aromatic hydrocarbons from gasolines which are products of the two-stage catalytic cracking of the gas-oil fractions of Balakhany heavy and Surakhany choice petroleum. Independently of the nature of the initial raw material, a temperature increase in the first stage leads to a decrease in the content of methyl-

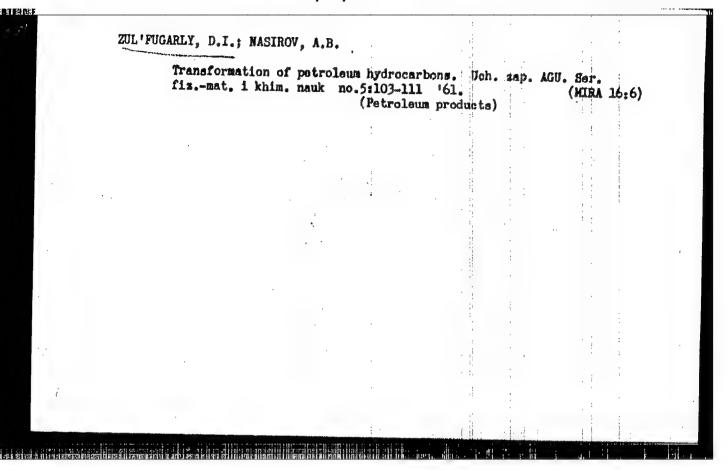
cyclohexane and 1,3- and 1,4-dimethylcyclohexanes and consequently of the total content of hexamethylenes in the product.

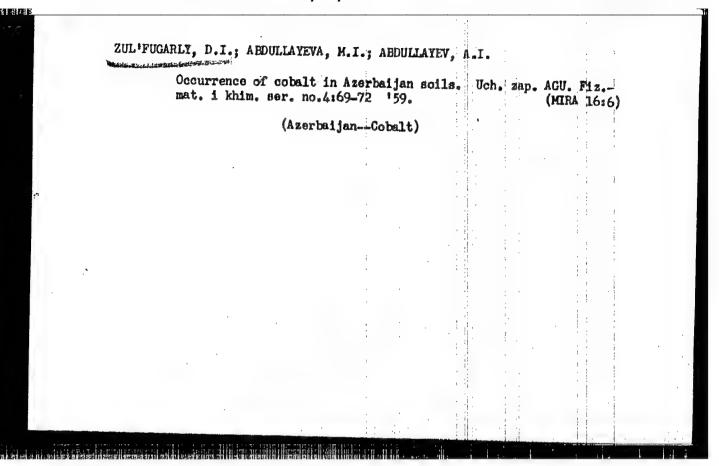
N. Kel'tsev

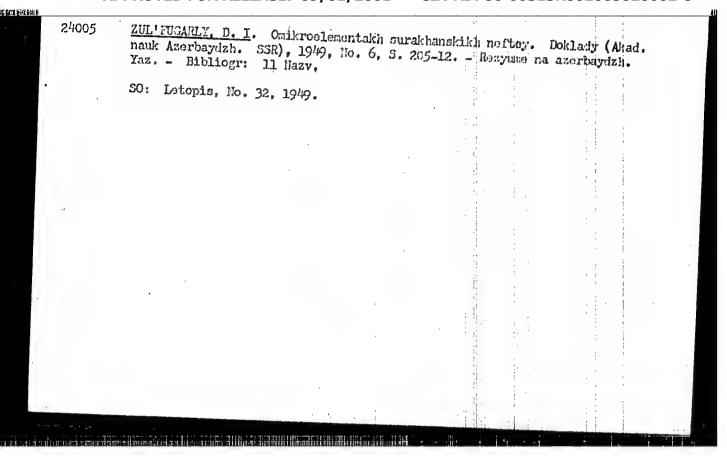
Card 1/1



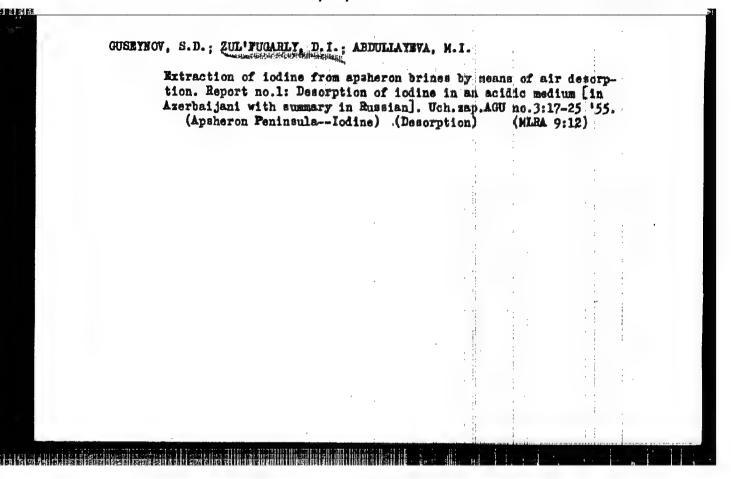








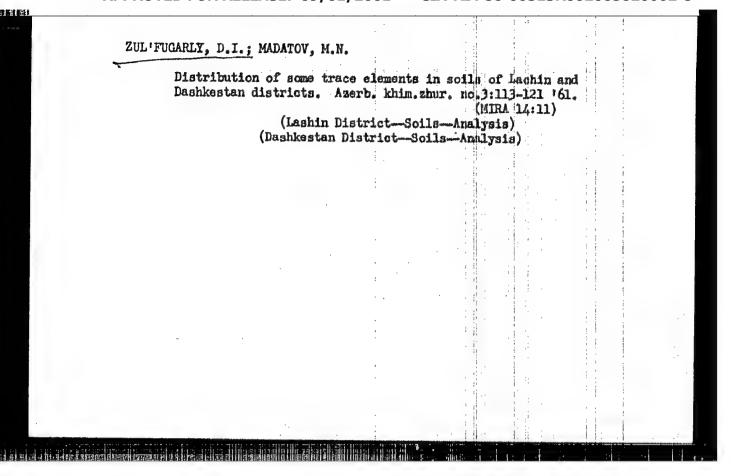
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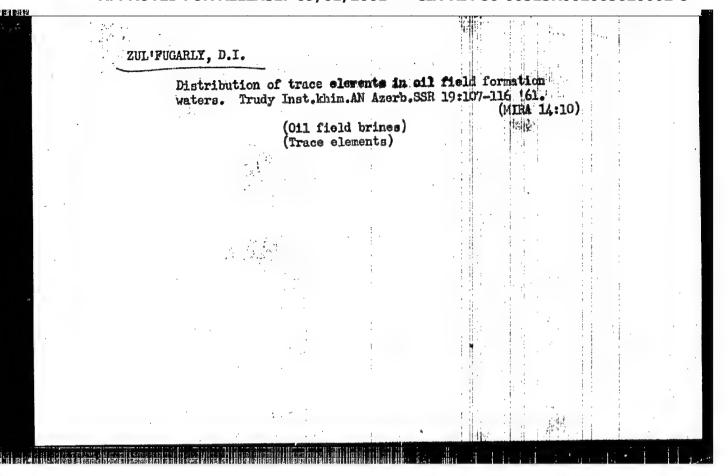


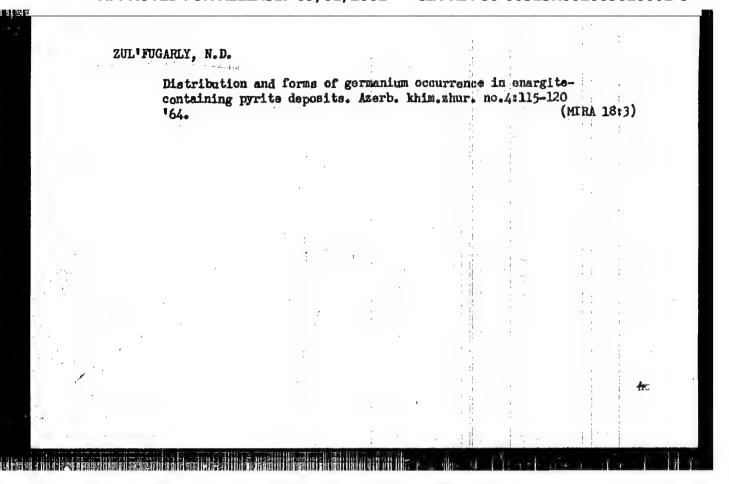
ZULIFUCARIX, D.I.; GUIYAYEVA, L.A., red.; VISHNEVITSKAYA, I.A., red.izd-va; AKHMEDOV, S., tekhn. red.

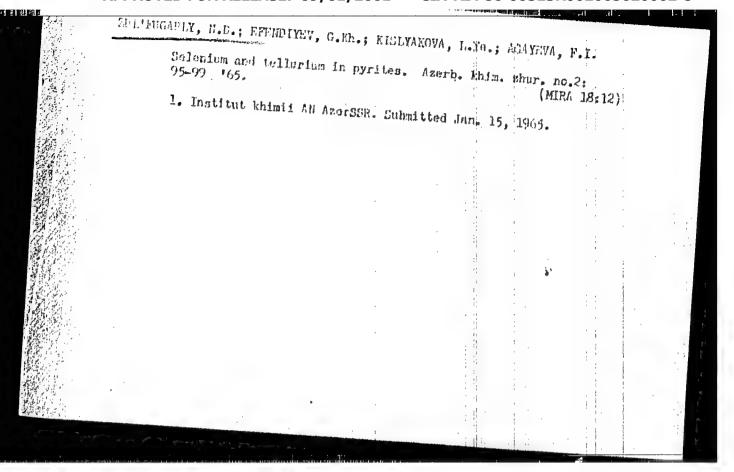
[Distribution of minor elements in caustobiolities, organisms, sedimentary rocks, and formation waters] Rasprojutranenie mikro-elementov v kaustobiolitekh, organizmakh, osadohnykh porodakh i plastovykh vodakh. Baku, Izd-vo Azerbaidzhannkogo univ., 1960. 229 p. (MIRA 15:4)

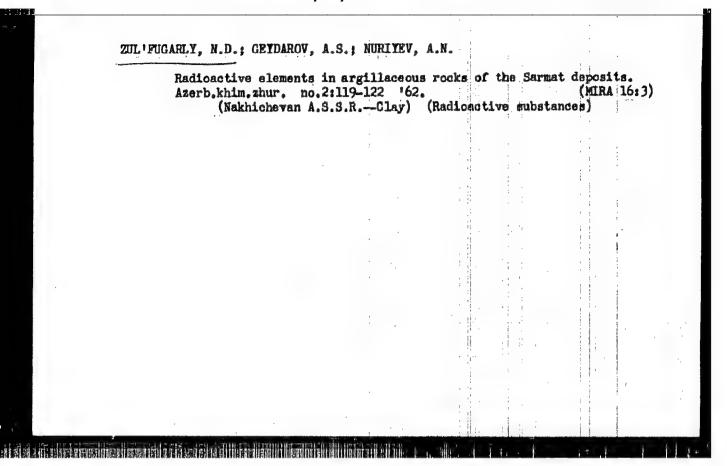
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KULIYEV, A.M.; ZUL'FUGAROVA, A.G.

Synthesis and study of alkyl m-dioxanes. Dokl. AN Azerb. SSR 20 no.4:29-31 '64. (NIRA 17:7)

1. Institut neftekhimicheskikh protesessov AN Azerbaydzhanskoy SSR.

EWT(m)/EWP(w)/EPF(e)/T/EWP(t)/EWP(b) L 1792-66 1 17/0315/65/000/003/0026/0032 ACCESSION NR: APSO24480 AUTHOR: Kuliyev, A. M.; Zul'fugarova, A. G.; El'ovich; I. T. TITLE: Synthesis and study of the anti-wear properties of additives from condensation products of alkylphenols with chloral SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 3, 1965, 26-32 TOPIC TAGS: lubricant additive, antiwear additive, anticorrection additive ABSTRACT: Seven anti-corrosion and anti-wear additives have been prepared by the condensation of various alkylphenols with chloral and, in some cases, subsequent treatment with phosphorus pentasulfide. The phenols used were isoproryl-, p-tertbutyl-, and p-tert-pentylphenols, and a technical alkylphenol. Condensation with chloral was carried out with stoichiometric amounts of the reactants in isopetane solution at 80-850 in the presence of coned H2804. The condensation products were treated with P2Ss in dearomatized ligroin at 95-1006:

ACCESSION NR: AP5024800

For both reactions yields ranged from 66 to 26%; product melting points from 42 to 162c. The products were tested as anti-wear and anti-co-osion additives (35) in AK-5 oil. Wear tests employed a four-ball apparatus, such anti-corrosical tests involved the Soviet NAMI gethod and a Swiss method (Reference given). All the products showed good anti-corrosion and anti-wear properties. The condensation products increased the anti-wear factor from 23 to 56.2 max and the dithiophosphates increased it from 23 to 102.5 max. Corrosion of Lead strips (NAMI method) was fully prevented. Orig. art. has: 2 formulan and 4 tables.

ASSOCIATION: INKhP AN Azerb SSR

SUBMITTED: 21Jan65

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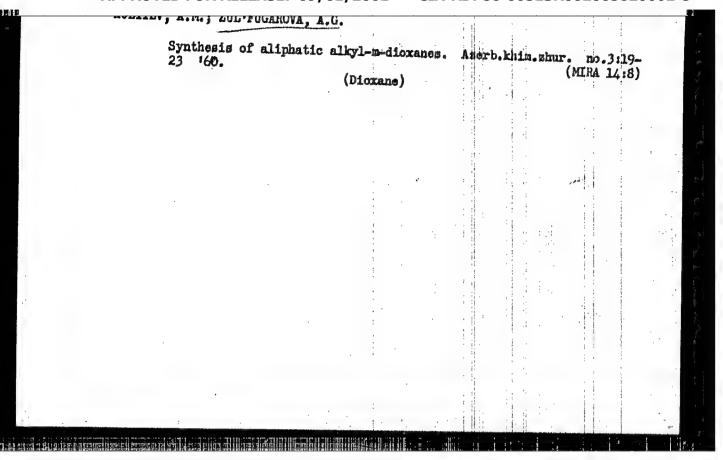
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L 1631-66 EWT(m)/EPF(c)/EWP(j)/T BW/WW/DJ/RM ACCESSION NR: AP5022083 UR/0249/65/021/005/0020/0024 Kuliyev. A. M. Zul'fugarova, AUTHORS: Elfovich, I. I. TITLE: Synthesis and investigation of antiwear additives from the products alkylbenzenes-chloral condensation AzerbSSR. Doklady, v. 21, no. 5, 1965, 20-24 TOPIC TAGS: alkyl benzene, antiwear additive, condensation reaction ABSTRACT: Ten new compounds, synthesized by acid condensation of chloral with various alkylbenzenes, were tested for their antiwear and anticorresive properties as lubricant additives. The work was undertaken in view of the observations of P. I. Sanin and Ye. S. Shepeleva (Prisadki k maslam i toplivam, Gostoptekhizdet, 1961, p. 61) that the antiwearing properties of many other organic compounts can be related to their content of CCl3 group. The reaction was performed at 50-60C for 5-6 hours in the presence of concentrated H2SO4 (40% by weight of alkylbenkene). The white orystalline products were recrystallized from heptane. Physical properties, yields, and elementary analyses of the following compounds are 1,1,1-Trichloro-2,2'-bis-diphenylethane; 1,1,1-Trichloro-2,2'-bis-(1-methylphenyl)ethanhi **Card 1/2** 

		3.4
	L 1631-66	
•	ACCESSION NR: AP5022065  1,1,1-Trichloro-2,2'-bis-(1,2-dimethylphenyl) thane; 1,1,1-Trichloro-2,2'-bis-(1,4-dimethylphenyl) thane; 1,1,1-Trichloro-2,2'-bis-(1-ethylphenyl) thane; 1,1,1-Trichloro-2,2'-bis-(1-isopropylphenyl) thane; 1,1,1-Trichloro-2,2'-bis-(1-tert.butylphenyl) thane; 1,1,1-Trichloro-2,2'-bis-(1-tert.butylphenyl) thane; 1,1,1-Trichloro-2,2'-bis (1-sec.amylphenyl) thane; 1,1,1-Trichloro-2,2'-bis (1-sec.amylphenyl) thane;	
	1,1,1-Trichloro-2,2'-bis (1-sec.amylpheny) with ohloral. Condensation product of polyalkylbenzene with ohloral. Condensation product of polyalkylbenzene with ohloral. The anti-wear properties of the compounds did not differ from each other to sny extent but an addition of 3% of either of them to the lubrically MK-22 increased extent but an addition of 3% of either compounds to the lubrically AK-15 its general wear index 3 to 3.5 times. A Swiss test of the miticorrosive properties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of either compounds to the lubrical AK-15 ties indicated that an addition of 3% of eithe	
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ZUL'FUGAROV, G. A., Doc Med Sci -- "On the extrablation prostatectomy. (Experimental clinical study)." Tbilisi, 1960, (Tbilisi State Med Inst) (KL, 8-61, 257)

- 411 -

ZUL'FUCAROV, G.A., Dr Med Sci -- (DISS) "Concerning aktra vesical prostated omy," Baku, 1960, 42 pp (Tuilisi State Legical Institute) (KL, 24-60, 124)

ZULIFUGAROV, G. A.

Dissertation: "Experimental Clinical Bata on the Effect of diructin on Thrombi."

Kand ded del, Azerbaydzhan State Medical Institute, Baku, 1954. (Referativnyy Churnalknimiya, No. 11, Moscow, Jun 54)

30: JUN 318, 23 Dec 1954.

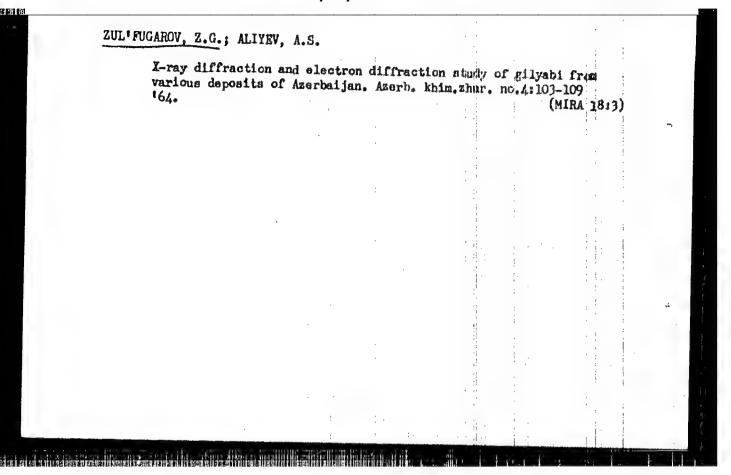
ZUL'FUGAROV, M. A.: "Methodology of teaching the geography of Azerbaydzhan SSR (in the seventh class)". Baku, 1955. Azerbaydzhan State Pedagogical Inst imeni V. I. Lenin.
(Dissertations for the degree of Candidate of Pedagogical Sciences.)

SO: Knizhnava Letopis' No. 50. 10 December 1955. Moscow.

USSR / Farm Animals, Hogs Abs Jour: Ref Zhur-Biol., No 2, 1958, 7199 Q-4 Author S. Zul'fugarov Inst : Not given Title : An Experiment in the Fattening of Hogs on the Orig Pub: Sots. s.kh. Azerbaydzhana, 1957, No 2, 34-37. Abstract: A comparison of the results of fattening local unimproved hogs (from a weight of 67-70 kilograms to a weight of 101-111 kilograms in 85 to 123 days), hybrids (from 70 kilograms to 142 kilograms in 110 days), and White Ukrainian Steppe hogs (from 51 kilograms to 158 kilograms in 147 days), determined that local hogs bring the poorest results as to gain in weight and compensation for expenditure of feed. Card 1/1 25

ZUL'FUGAROV, S.A., Cand Agr Sci — (diss) "Meat and making productivity of the Ukrainian steppes of the white, local (Azerbaydzhan) brend and their hybrids fed will industrial waste products from the city of Baku." /Baku/, 1958 27 pp. 1 sheet of tables (Min of Agr USSR. Azerbaydzhan Agr Inst) 150 copies (KL, 23-58, 109)

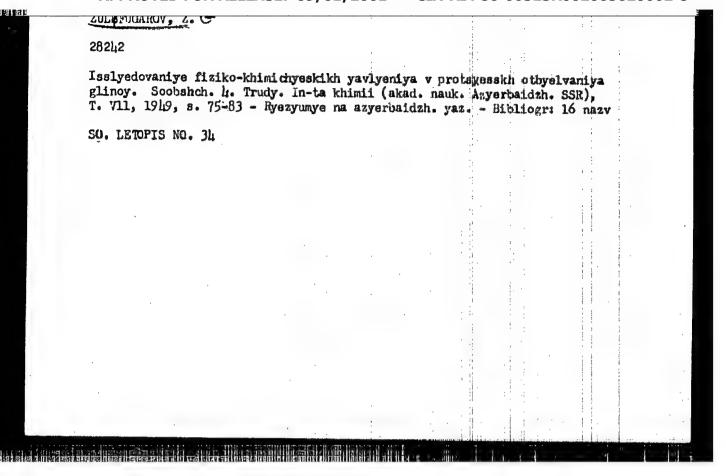
- 98 -

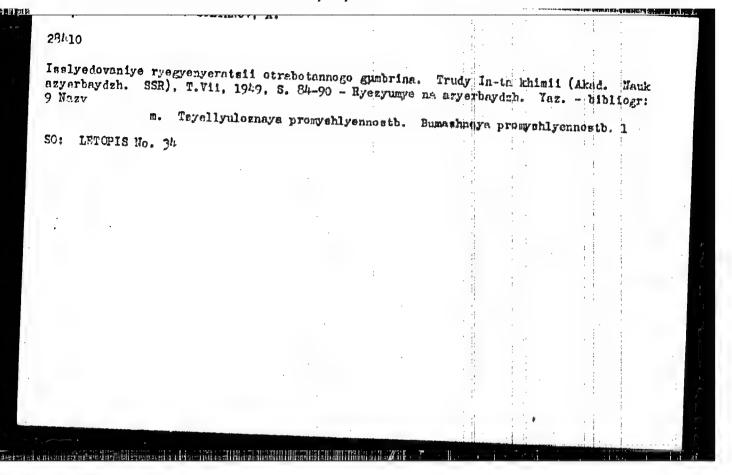


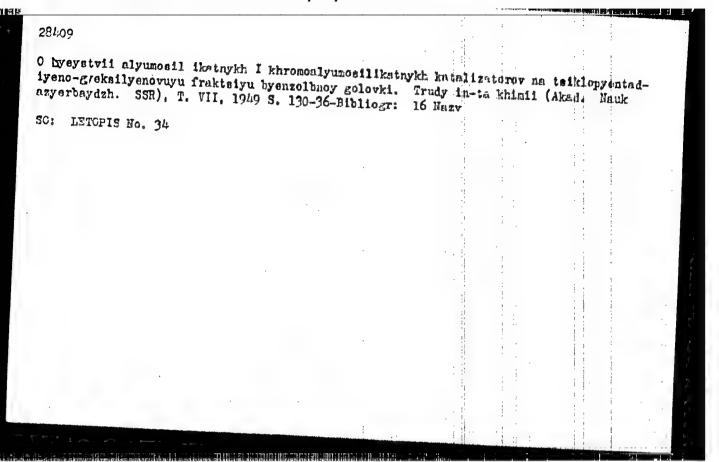
Z8108

Vzaimodycystvii gumbrine I syernistykh soyedinyeniy pri kontsktirovanii. Trudy In-ta khimii (Akad nauk azyerbaydzh, SSR), T. VII, 1949, S. 69-74 - Ryezyunye na anyerbaydzh. Taz. - Bibliogr: 10 Nazv.

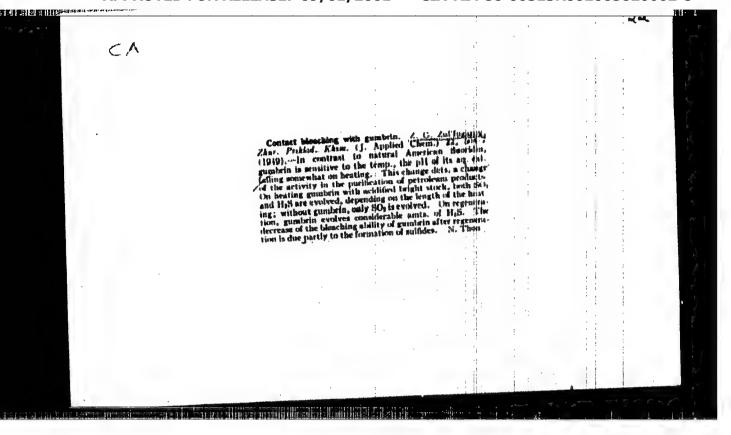
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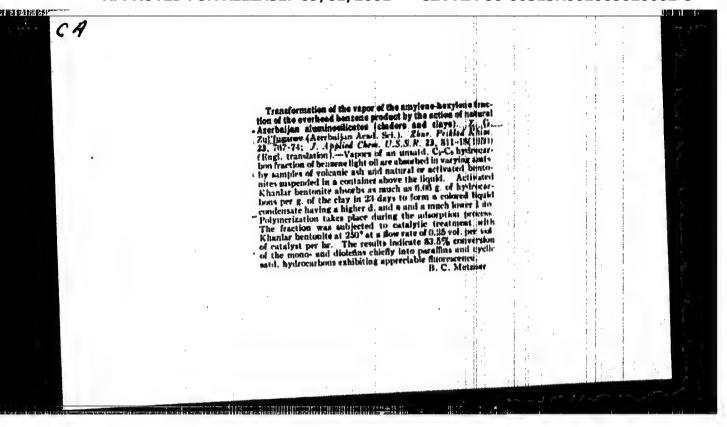






ZUL'FUGAROV, Z. c. Adsorbtsionnaya Sposobnost' Bentonitor i Wulkanicheskikh Peplov Newotopykh Mestorozhdeniy Azerbaydzhana. Isvestiya Akad. Nauk Azervaydzh. SSR, 1949.
NO. 9, s. 18-LO-Rezyume NA Azerbaydzh. Yaz-Bibliogr: 8 Nazv.
SO: Letopis' Zhurnal'nykh Stator, Vol. 4';





TEVOSOV, S.P.; ZUL'FUTAROV, Z.G.; DANILOVA, H.A.; EFFENDIYEV, G., redaktor

[Description of iodine from coal by electrochemical methods]

Elektrokhimicheshii metod descritsii ioda s uglia. Baku, Izd-vo
Akad. nauk Aserbaidzhanskoi SSR, 1951. 54 p. (MIRA 7:11)

(Iodine) (Electrochemistry, Industrial)

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants,

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5511

Author: Zul'fugarov, Z. G.

Institution: Academy of Sciences Azerbaydzhan SSR

Title: Catalytic Cracking of Naphthenic Acids and Gas Oil Over Oxide Catalysts

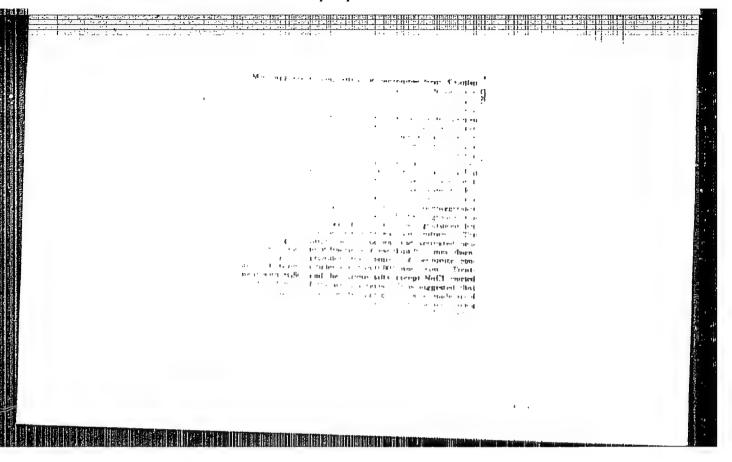
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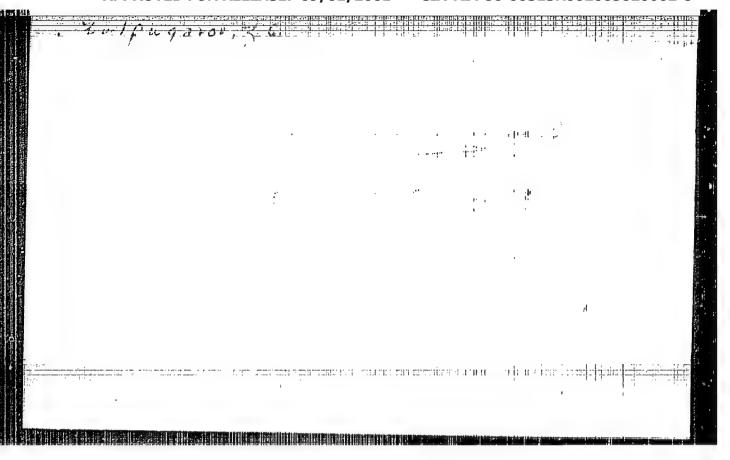
Publication: Izv. AN AzsSR, 1953, No 5, 37-50

Abstract: No abstract

Card 1/1



"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002065620002-8





ZULIFUGAROV, Z.O.; TOPCHIYEVA, K.V.

Catalytic activity and structural characteristics of magnesium aluminum silicate catalysts. [with English summary in insert]. Zhur.fis.khim. 30 no.9:2011-2015 S \*56. (MIRA 9:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Akademiya nauk Azerbaydzhanskoy SSR, Institut khimii, Baku. (Catalysts, Aluminum silicate)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065620002-8

ZUL'FUGAROV, Z. G. Doc Chem Sci — (diss) "Study of physical and chemical properties of natural and synthetic metallosilicate contacts, used in refining and cracking of products."

Baku, 1957. 47 pp with graphs 20 cm. (Academy of Sciences USSR), Petroleum Inst), 100 copies

(KL, 21-57, 99)

-17-

ZILL FUGAROY, Z.G.; GUTYRYA. V.S., red.; MIRGIADZE, G., red.1zd-va; POGOSOY, V., tekin.red.

[Effect of synthesis of catalysts in cracking and their physicochemical properties] Vilianie uslovii sintesa krekiriiushchikh katelizatorov na ikh fisiko-khimlcheskie svoisiva. Baku, Ird-vo Akad. nauk Arerbaidzhanskoi SSR. 1957. 221 p. (MKRA 11:2)

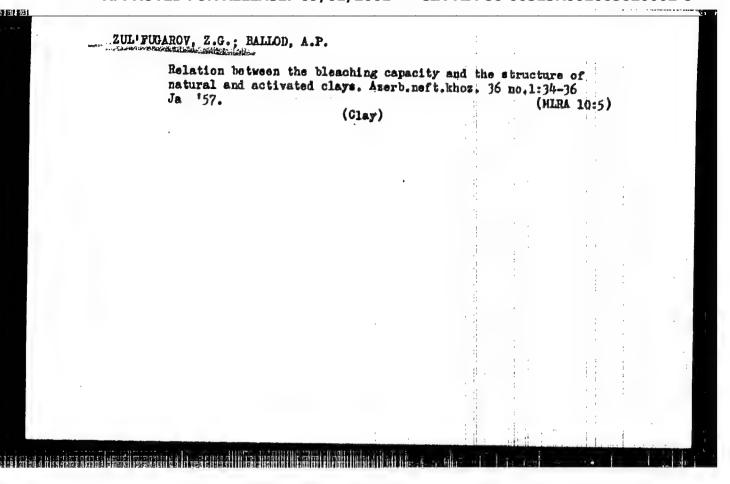
(Catalysts) (Gracking process)

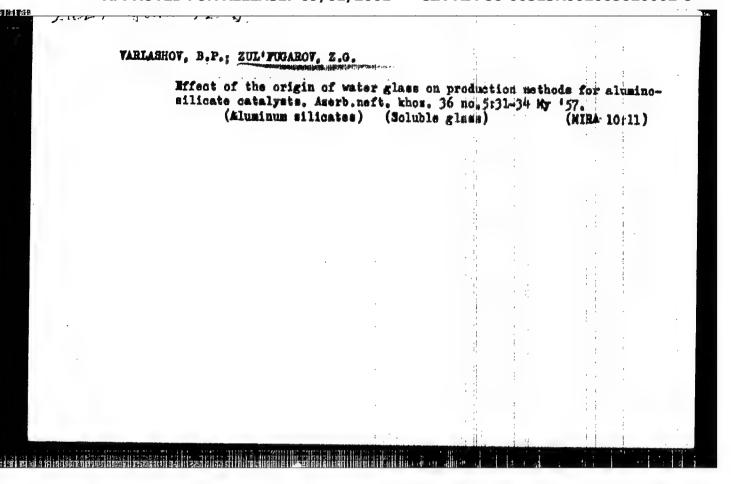
ZUL'PUGAROV. Z.G.: GUTYRYA, V.S., professor, redaktor; PEVZMER, M.I., tekhnicheskiy redaktor

and the

[Studies on the physical and chemical characteristics and refining properties of Azerbaijan clays and gumbrin] Issledovanie fiziko-khimicheskikh svoistv i otbelivaiushchei spesohnosti glin mesto-rozhdenii Azerbaidzhanskoi SSR I gumbrina. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1957. 247 p. (MLRA 10:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Gutyrya)
(Azerbaijan--Clay)





RASULOVA, S.M.; KHALILOVA, N.G.; DZHAYARLI, R.M.; MURAHOVA, S.A.; ZUL! MURAHOV, Z.G.

Investigation of means of increasing stable activity of the cracking catalyst "thanlarit" lin Azerbaijani with summary in Russianj. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.5:81-95 '58. (Cracking process) (Catalysta)

(Cracking process) (Catalysta)

TEVOSOV, S.P.; ZUL'WUGAROY, Z.G., doktor khim.nauk, red.; MIKELADZE, G., red.izd-ve; AGATEVA, Sh., tekhn.red.

[Study of electrochemical suchods for obtaining iodine from oil field waters] Isaladovanie elektrokhimichaskikh metodov polucheniis ioda iz neftianykh vod. Baku, Isd-vo Akad.nauk Azerbaidzhanskoi SSR, 1959. 188 p.

(Iodine) (011 field brines) (MIRA 12:12)

Manufacture of vitreous magnesium silicate catalysts for the cracking of heavy petroleum fractions [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.lt 113-124 '59.

(Cracking process) (Magnesium silicates) (Catalysts)

ACDAMSKIY, T.A.; AGAYEVA, S.G.; ZUL'FUGAROV, Z.G.

Promoting capacity of the oxides of Sr. La, Mo. Ce, Ca, Gd added to the catalyst of dehydrogenation of n-butans to butylenes. Dokl. AN Azerb. SSR 20 no.7121-24. '64.

1. Institut khimii AN AzerSSR. Predstavleno skademikom AN AzerSSP. M.A. Dalinym.

ALEKPEROVA, S.A.; ZUL'FUGAROV, Z.G.; AKHUNDOVA, T.S.; DZHABAROVA, R.D.

Effect of the discharge of activating acid on the activity of gilyabi of Bayram-Ali and Kobystan deposits. Aserb. khim. zhrr. no.3:96-100 '65. (NIRA 19:1)

1. Azerbaydzhanskiy gosudarstvennyy universitet imeni S.M. Kirova.

L = 29530-66 EWP(j)/EWT(m)/T IJP(c) RM

ACC NR. AR6004374

SOURCE CODE: UR/0081/65/000/015/S027/S027

AUTHOR: Zul'fugarov, Z. G.; Zul'fugarova, L. Sh.; Muradova, S. A.; 42 Alimardanov, G. I.

TITLE: Effect of the chemical composition of the carrier and promoter on the catelytic activity and form of chromium in polymerization,

SOURCE: Ref. zh. Khimiya, Abs. 158160

REF SOURCE: Sb. Nauchn. osnovy podbora i proiz-va katalizatorov. Novosibirsk, Sib. otd. AN SSSR, 1964, 288-295

TOPIC TAGS: polymer, polymerization catalyst, chromium oxide, nickel, cobalt, iron, executor, current composition

ABSTRACT: The effect of the chemical composition of the carrier, the amount of Cr<sup>+3</sup> in hydrogel, Cr<sup>0</sup>, K<sub>2</sub>Cr<sub>0</sub>, Ni, Co and Fe on the activity and form of chromium oxides as a compound in chromalumosilicate, chromalumomagnesiumsilicate and a chromomagnesiumsilicate catalyst, were studied and the relationship between the factors determined. The synthesis of the carriers war carried out by coprecipitation or substitution, and the synthesis of catalysts, by the method of

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chromium-cof the cat 480-510° to one volume of the cat	chromium hydro containing carri talyst was perfo with a speed of e of catalyst pe talyst obtained st efficiency.	er with chrommed by oxicair flow equer hour. The in one work	omium anhyd dizing it b ual to 400 e yield of ing cycle w	ride. y air volume polyet	The act for 5 ho units of hylene p	ilvat ours of ai oer l	at at r for kg	
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L 32964-66 EWT(m)/EWP(j)/T IJP(c) RM/WW

ACC NR: AP6017331 (A) SOURCE CODE: UR/0249/65/021/010/0019/0022

AUTHOR: Zul'fugarov, Z. G.; Bulatnikova, E. L.

ORG: Institute of Chemistry, VNIIolefin (Institut khimii VNIIolefin)

TITLE: Low-temperature copolymerization of ethylene with propylene and alpha-butylene using a chromium-chromic oxide catalyst

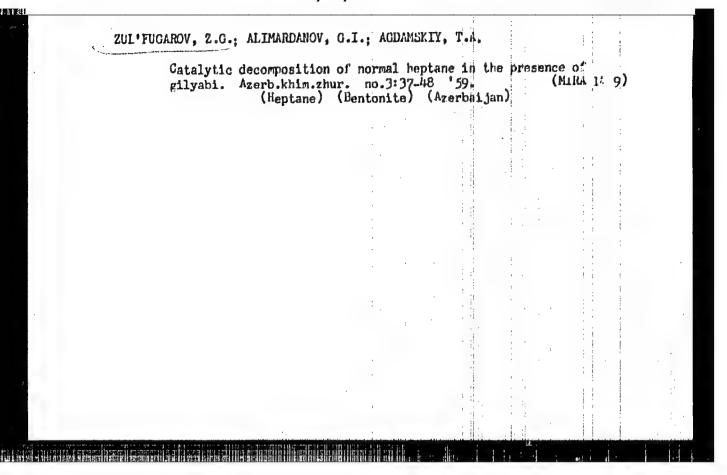
SOURCE: AN AzerbSSR. Doklady, v. 21, no. 10, 1965, 19-22

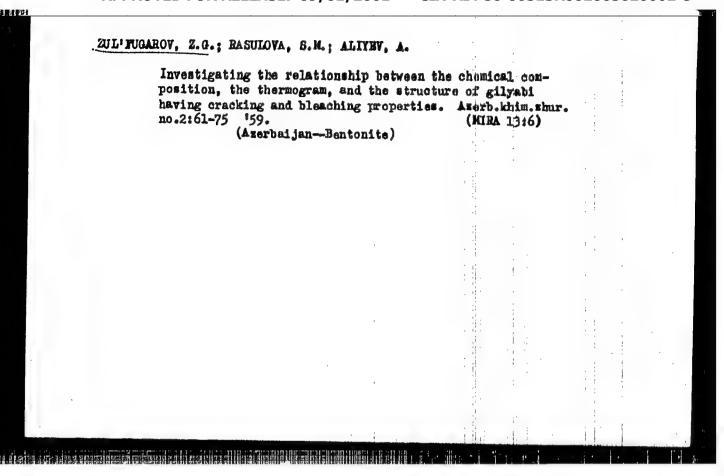
TOPIC TAGS: ethylene, propylene, copolymerization, polymerization catalyst, polyethylene plastic

ABSTRACT: The authors study the effect of adding propylene and alpha-butylene during polymerization of pure ethylene at low temperatures where the resultant product is a copolymer of extremely high molecular weight. For this purpose, ethylene was copolymerized with proplylene and alpha-butylene at low temperatures. The catalyst was made up of chromium oxides on an aluminosilicate carrier. The solvent was "Ekstra" gasoline. The polymerization was done at a temperature of 75-80°C and a pressure of 35 atm. It is found that copolymerization of ethylene with lower olefins at low temperatures on a chromic oxide catalyst may be ured to reduce the molecular weight of polyethylene while simultaneously reducing its crystallinity and increasing its elasticity. It was found that the catalyst has a clearly marked induction period of up

**Card** 1/2

to one hour which is reduced of the process are increased.	Orig. art. has: 3 f	igures, 1 table.	
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3/081/60/000/017/005/016 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 17, p. 63, # 68689

AUTHORS: Smirneva, V.Ye., Topchiyeva, K.V., Zul'fugardy, Z.U.

TITLE: The Effect of the Chemical Composition, pH of the Synthesis Medium and the Nature of Initial Sols on the Activity of Alumo-Silicate

Catalysts 1

FERIODICAL: Azero. khim. zh. 1959, No. 1, pp. 83-95 (Azerb. summary)

TEXT: The authors investigated the effect of pH the nature of initial solutions and the chemical composition on the activity and pore structure of alumnosilicate catalysts, prepared by coprecipitation of water glass solutions and sodium aluminates (series I) or aluminum sulfates (series II). It was found that the nature of initial salts manifests itself only in the 6.8-10.8 pH range; at lower pH values the catalyst activity of series I does not change and that of series II decreases. At an equal chemical composition and pH of the sol, the catalysts of series II show a relatively higher pore diameter (d). An increased Al<sub>2</sub>O<sub>2</sub> percentage in the catalysts of series I causes an increase of d and a decrease in the initial activity, but promotes a higher stability in respect to Card 1/2

S/081/60/000/017/005/016 A006/A001

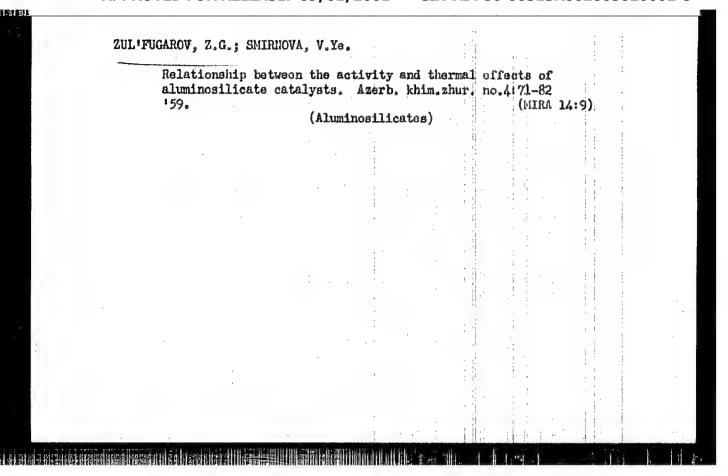
The Effect of the Chemical Composition, pH of the Synthesis Medium and the Nature of Initial Sols on the Activity of Alumo-Silicate Catalysts

processing with water vapor. After processing with H<sub>2</sub>O vapor, the activity of all catalysts drops but their specific activity increases. The specific activity of catalysts of series I is higher than that of catalysts of series II. It is concluded that at a corresponding chemical composition of the initial solutions, pH of the formation medium plays a decisive part in the formation of active contacts.

V. Vasserberg

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2



# Chemical composition, porous structure and activity of Aserbaijani bentonite clays. Trudy Inst.khim.AN Aserb.85R 17:9-26 '59. (HIRA 13:4) 1. Institut khimii AN AserSSR. (Bentonite)

S/121/60/000/018/002/009 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 9, p. 65, # 72595

AUTHORS: Guseynova, Z. A., Topchiyeva, K. V., Zul'fugarov, Z. G.

TITLE: The Effect of Activating Cations on the Porosity of the Structure and Activity of Metal-Silicate Catalysts

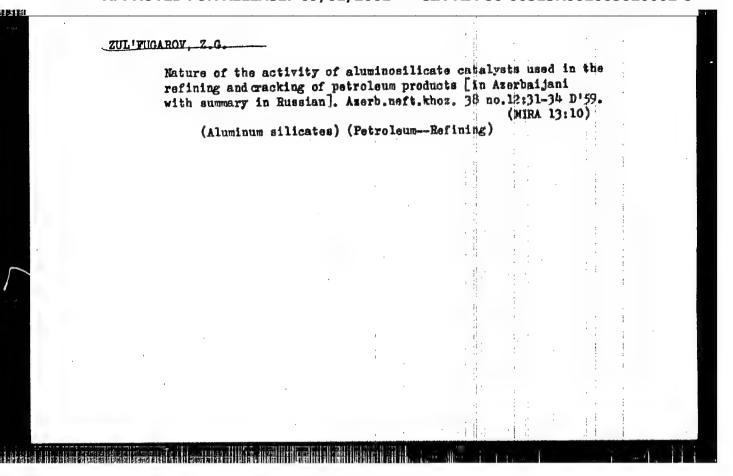
PERIODICAL: Azerb. khim. zh., 1959, No. 6, pp. 47-55 (Azerb., Russian summary)

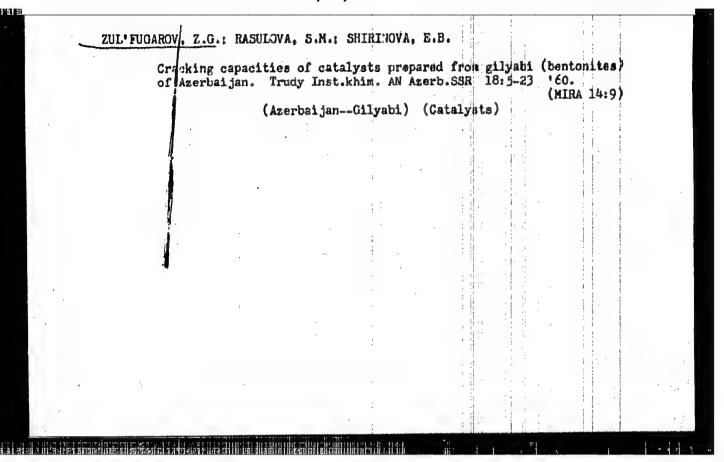
TEXT: On the example of Mn-, Zn-, Cu-, and Sr-silicate catalysts it is shown that more active contacts with larger specific surfaces are obtained when the indicated cations of basic metal-silicate compounds are partially substituted by cations of activating Al salts. The introduction of a Mg activator cation into the composition of the catalyst causes a widening of the pure diameter. Then the activity changes only slightly. Benzines formed on the catalysts activated with an Al cation, are more aromatized and contain less non-saturated hydrocarbons than benzines formed on initial catalysts and on catalysts activated with Mg cations.

From the author's summary.

Translator's note: This is the full translation of the original Russian abstract,

Card 1/1





S/081/61/000/010/002/029 B117/B207

AUTHORS:

Zulfugarov, Z. H., Husejnova, Z. E., Elimerdanov, H. I.

TITLE:

PIR

Study of the activity of oxide catalysts in the transformation reaction from gas condensate into unsaturated hydro-

carbons

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1961, 71, abstract 105512 (10B512). ("Azerb. khim. zh.", no. 4, 1960, 75-82)

TEXT: A method was studied for producing active oxide catalysts to transform the broad and the small  $(70^{\circ}-140^{\circ}\text{C})$  fraction of the gas condensate into gaseous unsaturated hydrocarbons. The activities of Mn-, Zn-, Cu silicate and Mg metal silicate, as well as Mn-, Zn-, and Cu alumosilicate catalysts were shown to be inconsiderable and of the same order of magnitude. The activity of molybdenum catalysts prepared on the basis of (HAlSiO<sub>4</sub>) hydrogels is 40-46% lower than that of the same molybdenum catalysts prepared on (Na(K)AlSiO<sub>4</sub>) hydrogel basis. A profounder sub-

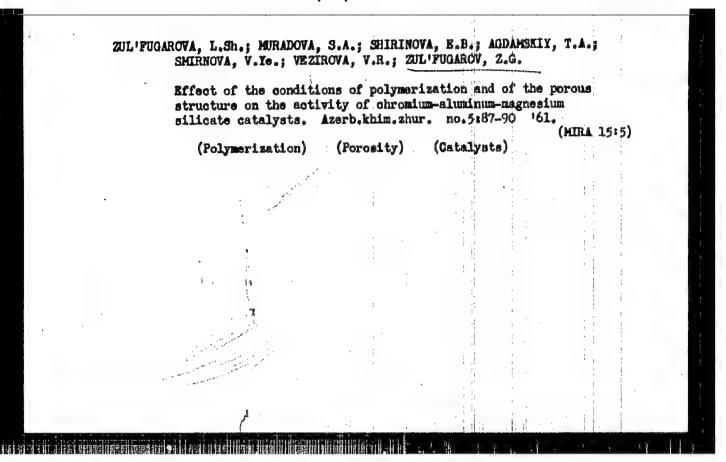
Card 1/2

Study of the activity of oxide ...

8/081/61/000/010/002/029

stitution of hydrogen ions in the alumosilicate composition by K(Na) ions contributes to a certain increase in the yield of unsaturated hydrogarbons. The Mo-, K(Na) alumosilicates are the most active catalysts. This type of catalyst secures a yield of unsaturated hydrocarbons amounting to 29% by weight of the initial substance, among them 11.3% ethylene, 15.9% propylene, and 1.8% butylene. | Abstracter's note: Complete translation.

Card 2/2



2111119 s/081/61/000/006/015/015 B101/B201

AUTHORS:

Zul'fugarov, Z. G., Zul'fugarova, L. Sh., Muradova, S. A.,

Shirinova, E. B., Agdamskiy, T. A., Aliyev, A. S.

Study of the activity of chromium aluminum magnesium silicate catalysts in the polymerization reaction of TITLE:

ethylene to polyethylene

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 6, 1961, 711-712, abstract 6P87 (6R87) ("Azerb. khim. zh.", 1960, no. 2,

TEXT: A study has been made of new types of chromium aluminum magnesium silicate catalysts (Cat) in the polymerization of ethylene to polyethylene, and of the activity of Cat as dependent upon the method of their introduction into the chromium oxide. The activity of Cat has been shown essentially to depend on the method of synthesis, the chemical composition of the carriers having no appreciable effect upon such activity. The optimum ratio of Cr6+ and Cr3+ oxides in the chromium metasilicate catalysts concerned has been found to be 40-55: 45-60; the maximum polymer yield per

Card 1/2

### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065620002-8

S/081/61/000/006/015/015 B101/B201

Study of the activity of chromium ...

g of Cat has been 92 and 114 g, respectively. No relationship has been observed between the catalytic activity of Cat and their thermograms, their porosity, specific pore volume, and apparent density. All the polymers obtained have been found to have a highly crystalline structure. The authors assumed the active part of chromium catalysts to consist of salts of chromous acid or acid salts of chromic acid. [Abstracter's note: Complete translation.]

Card 2/2

